FIG 1

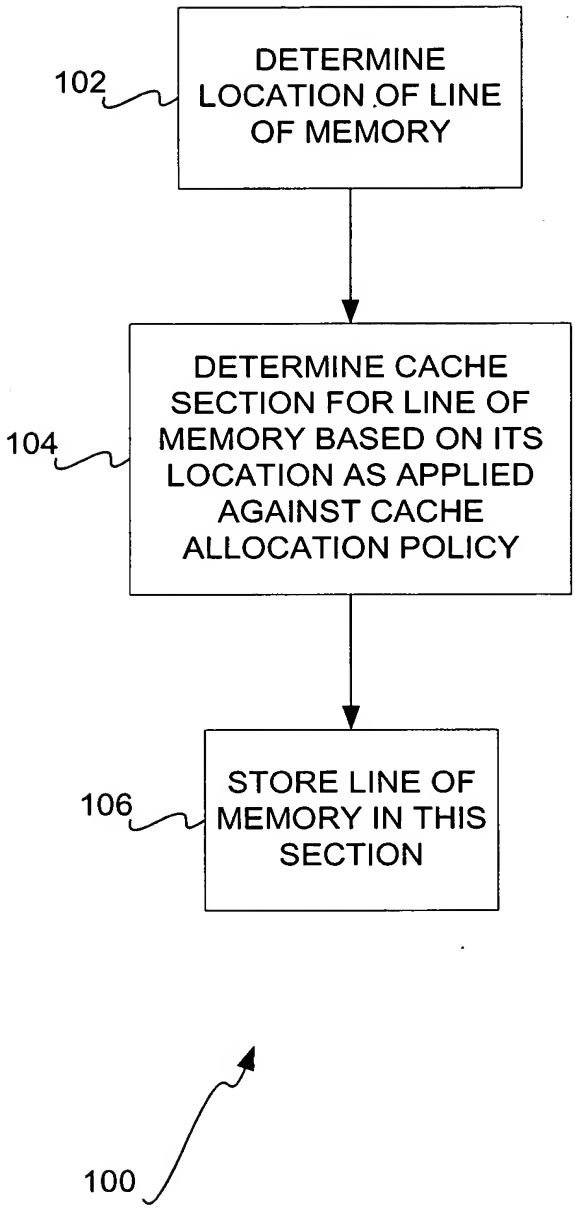
102
DETERMINE LOCATION OF LINE OF MEMORY
104
DETERMINE CACHE SECTION FOR LINE OF MEMORY BASED ON ITS LOCATION AS APPLIED AGAINST CACHE ALLOCATION POLICY
106
STORE LINE OF MEMORY IN THIS SECTION
100

FIG 2

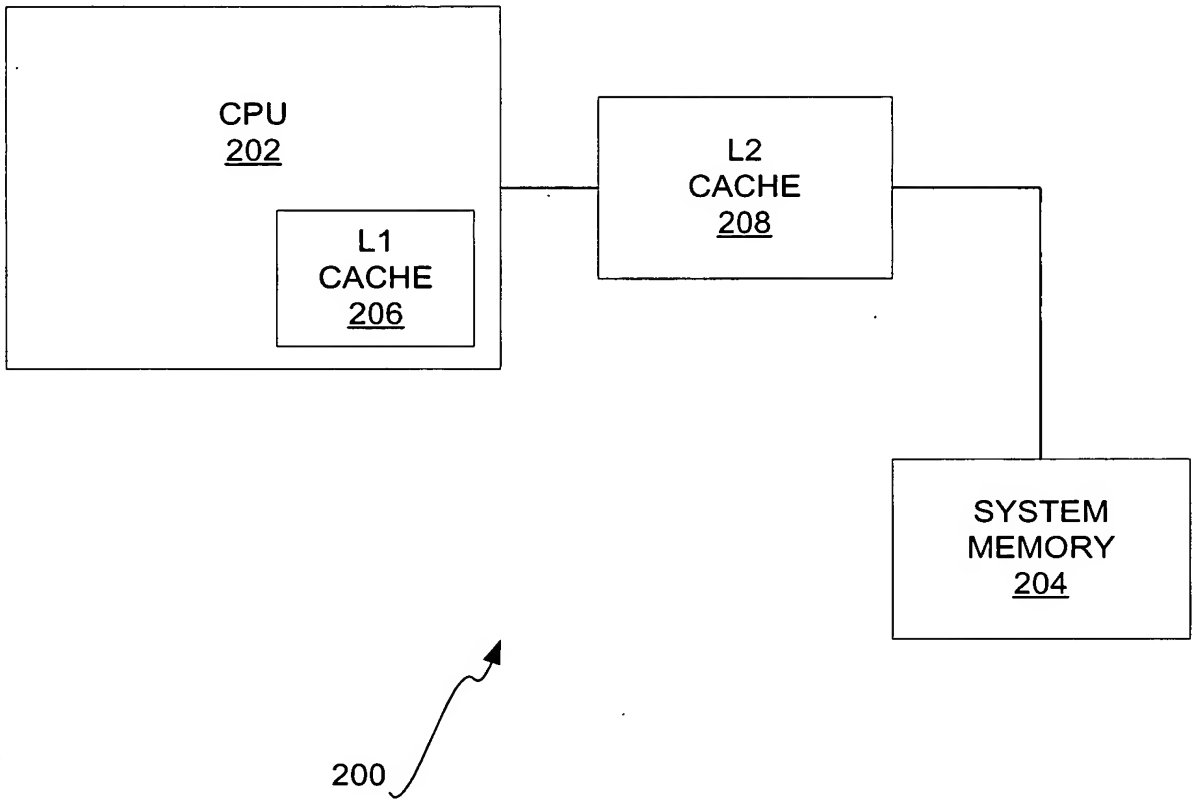

FIG 3

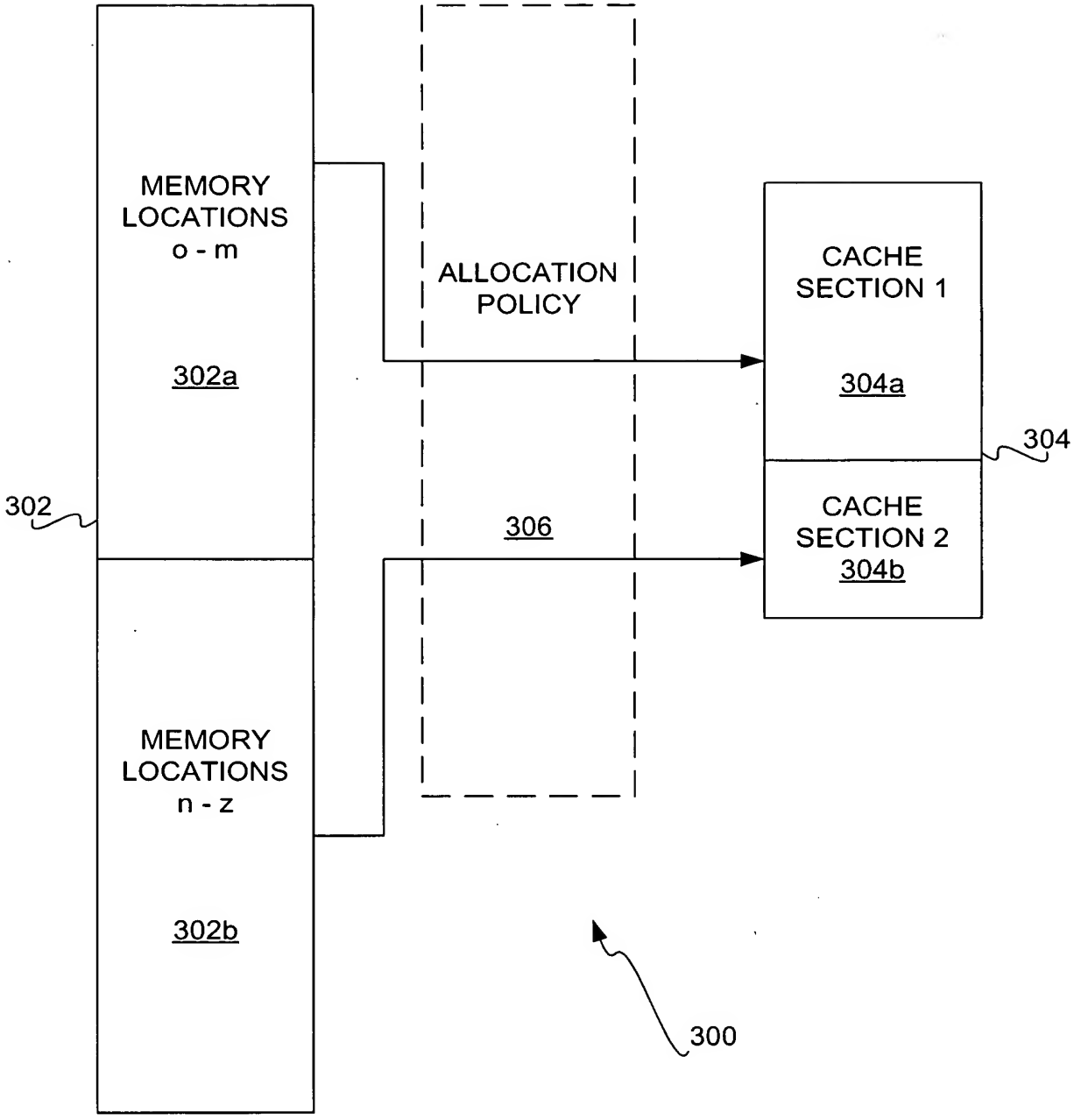

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FIG 4

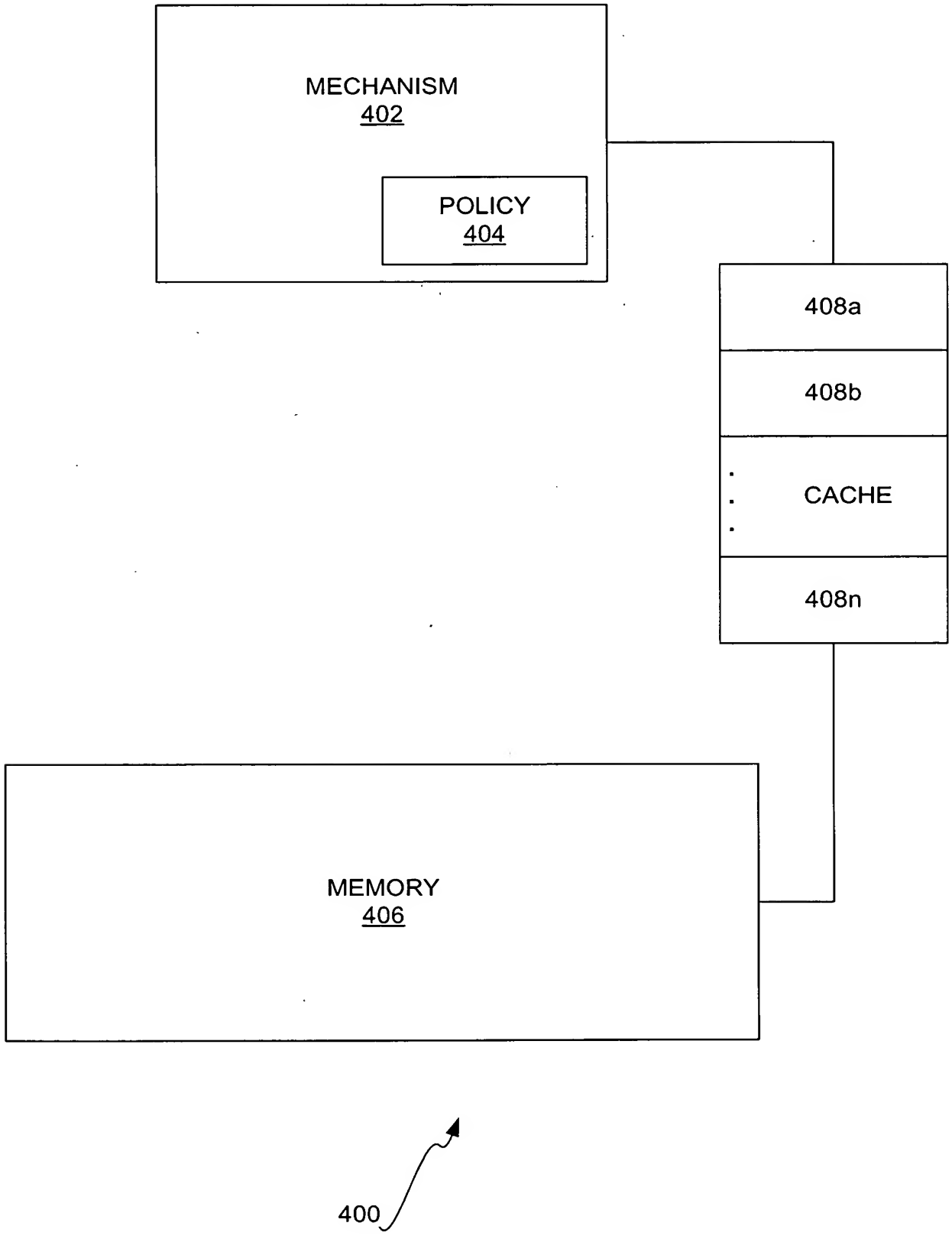
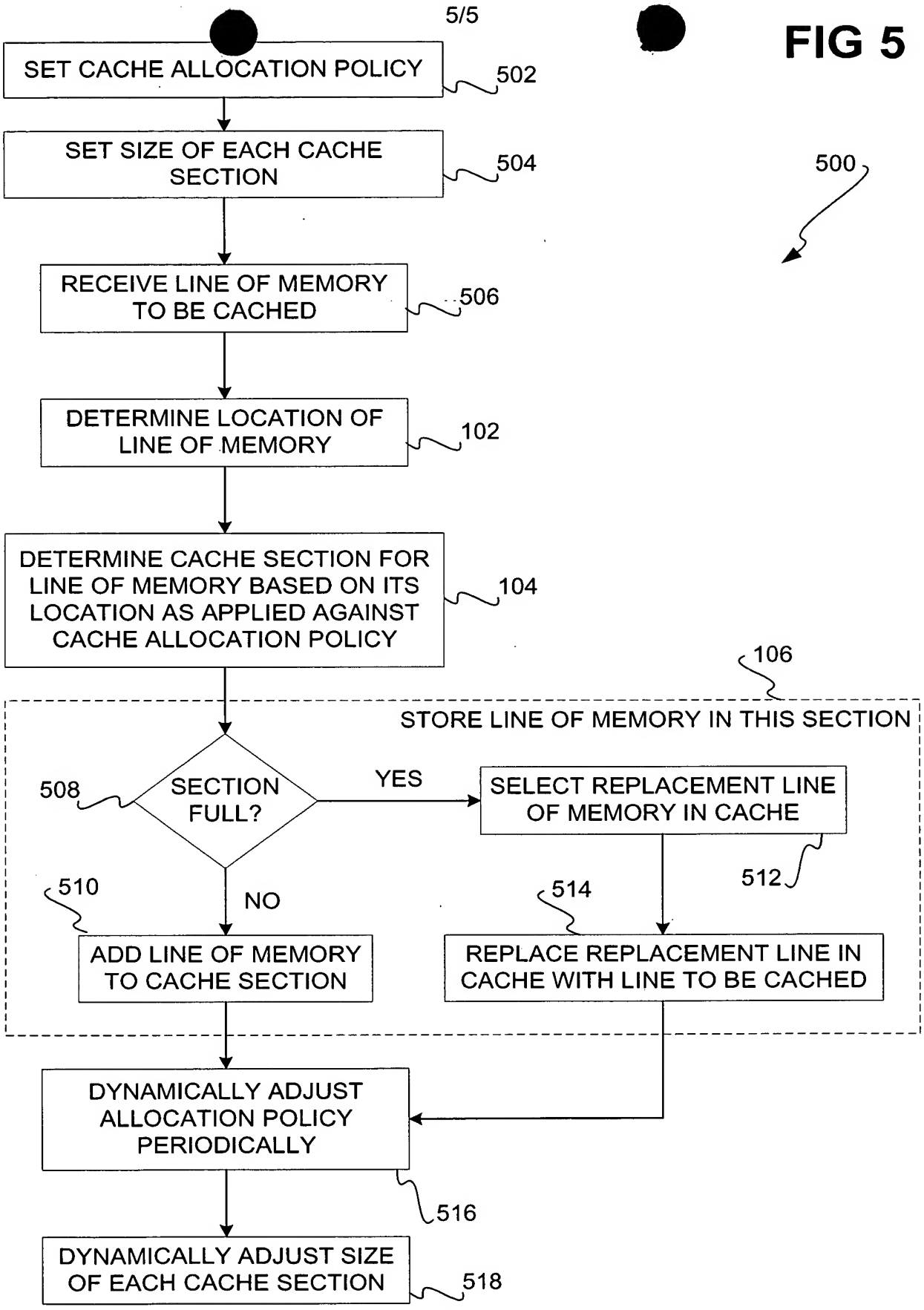

MECHANISM
402
POLICY
404
408a
408b
CACHE
408n
MEMORY
406
400

FIG 5


SET CACHE ALLOCATION POLICY
502
SET SIZE OF EACH CACHE SECTION
504
500
RECEIVE LINE OF MEMORY TO BE CACHED
506
DETERMINE LOCATION OF LINE OF MEMORY
102
DETERMINE CACHE SECTION FOR LINE OF MEMORY BASED ON ITS LOCATION AS APPLIED AGAINST CACHE ALLOCATION POLICY
104
106
STORE LINE OF MEMORY IN THIS SECTION
508
SECTION FULL?
YES
SELECT REPLACEMENT LINE OF MEMORY IN CACHE
512
510
NO
514
ADD LINE OF MEMORY TO CACHE SECTION
REPLACE REPLACEMENT LINE IN CACHE WITH LINE TO BE CACHED
DYNAMICALLY ADJUST ALLOCATION POLICY PERIODICALLY
516
DYNAMICALLY ADJUST SIZE OF EACH CACHE SECTION
518